

POINT LOAD TEST RESULTS

Tested 31/03/2010 & 01/04/2010

42mm wide x 30mm high battens @ 400mm crs
RC20 cradles @ 450mm crs

Point Load Location	Load (kN)	Deflection at each Batten			Maximum Difference (mm)	AS/NZS1170 recommended maximum (mm)	Deflection Criteria Pass/Fail
		A (mm)	B (mm)	C (mm)			
1	2.70	1.18	2.72	1.10	1.62	2.67	Pass
	3.60	1.28	3.17	1.27	1.90	2.67	Pass
	4.51	1.33	3.95	1.68			
	6.02	1.63	5.38	2.13			
	7.52	1.85	6.45	2.50			
2	2.70	0.79	2.73	0.87	1.94	2.67	Pass
	3.60	1.00	3.68	1.10	2.68	2.67	Fail
	4.51	1.16	4.65	1.36			
	6.02	1.55	6.50	1.90			
	7.52	1.95	8.25	2.35			
3	2.70	0.55	2.30	0.87	1.75	2.67	Pass
	3.60	0.78	3.44	1.21	2.66	2.67	Pass
	4.51	1.05	4.55	1.52			
	6.02	1.48	6.21	2.00			
	7.52	1.98	8.00	2.55			
4	2.70	1.00	3.00	0.65	2.35	2.67	Pass
	3.60	1.40	4.00	0.95	3.05	2.67	Fail
	4.51	1.80	5.00	1.33			
	6.02	2.38	6.30	1.73			
	7.52	2.80	7.60	2.16			
5	2.70	0.91	2.70	0.80	1.90	2.67	Pass
	3.60	1.32	3.78	1.24	2.54	2.67	Pass
	4.51	1.78	5.00	1.66			
	6.02	2.32	6.70	2.25			
	7.52	2.95	8.50	2.90			
6	2.70	1.03	2.57	0.81	1.76	2.67	Pass
	3.60	1.28	3.28	1.04	2.24	2.67	Pass
	4.51	1.60	4.21	1.34			
	6.02	2.00	5.47	1.82			
	7.52	2.45	6.83	2.30			
7	2.70	1.13	3.10	0.96	2.14	2.67	Pass
	3.60	1.42	3.85	1.21	2.64	2.67	Pass
	4.51	1.73	4.78	1.48			
	6.02	2.31	6.52	2.05			
	7.52	3.00	8.40	2.67			

UNIFORMLY DISTRIBUTED LOAD (UDL) TEST RESULTS

Tested 30/03/2010

42mm wide x 42mm high battens @ 400mm crs
RC20 cradles @ 450mm crs

UDL Load Test No.	Load (kPa)	Deflection at each Batten			Maximum Difference (mm)	AS/NZS1170 recommended maximum (mm)	Deflection Criteria Pass/Fail
		A (mm)	B (mm)	C (mm)			
1	0.79		0.55				
	1.57		0.90				
	2.35		1.25				
	3.14		1.55				
	3.92		1.90				
	4.71		2.25				
	5.49		2.65				
2	0.79		0.50				
	1.57		0.90				
	2.35		1.25				
	3.14		1.55				
	3.92		1.90				
	4.71		2.23				
	5.49		2.55				
	6.28		2.85				
	7.16		3.25				
	8.04		3.60				
By Interpolation							
	3.00		1.50				
	4.00		1.93				

POINT LOAD TEST RESULTS

Tested 30/03/2010

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RC20 cradles @ 450mm crs

Point Load Location	Load (kN)	Deflection at each Batten			Maximum Difference (mm)	AS/NZS1170 recommended maximum (mm)	Deflection Criteria Pass/Fail
		A (mm)	B (mm)	C (mm)			
1	2.70	1.80	2.75	1.55	1.20	2.67	Pass
	3.60	1.90	3.75	1.80	1.95	2.67	Pass
	4.51		3.95				
	6.02		5.15				
	7.52		6.45				
2	2.70		2.75				
	3.60		4.45				
	4.51		5.85				
	6.02		7.15				
	7.52		8.35				
3	2.70	1.40	2.12	1.50	0.72	2.67	Pass
	3.60		3.05				
	4.51		4.05				
	6.02		5.25				
	7.52		6.55				